

FIG. 1A

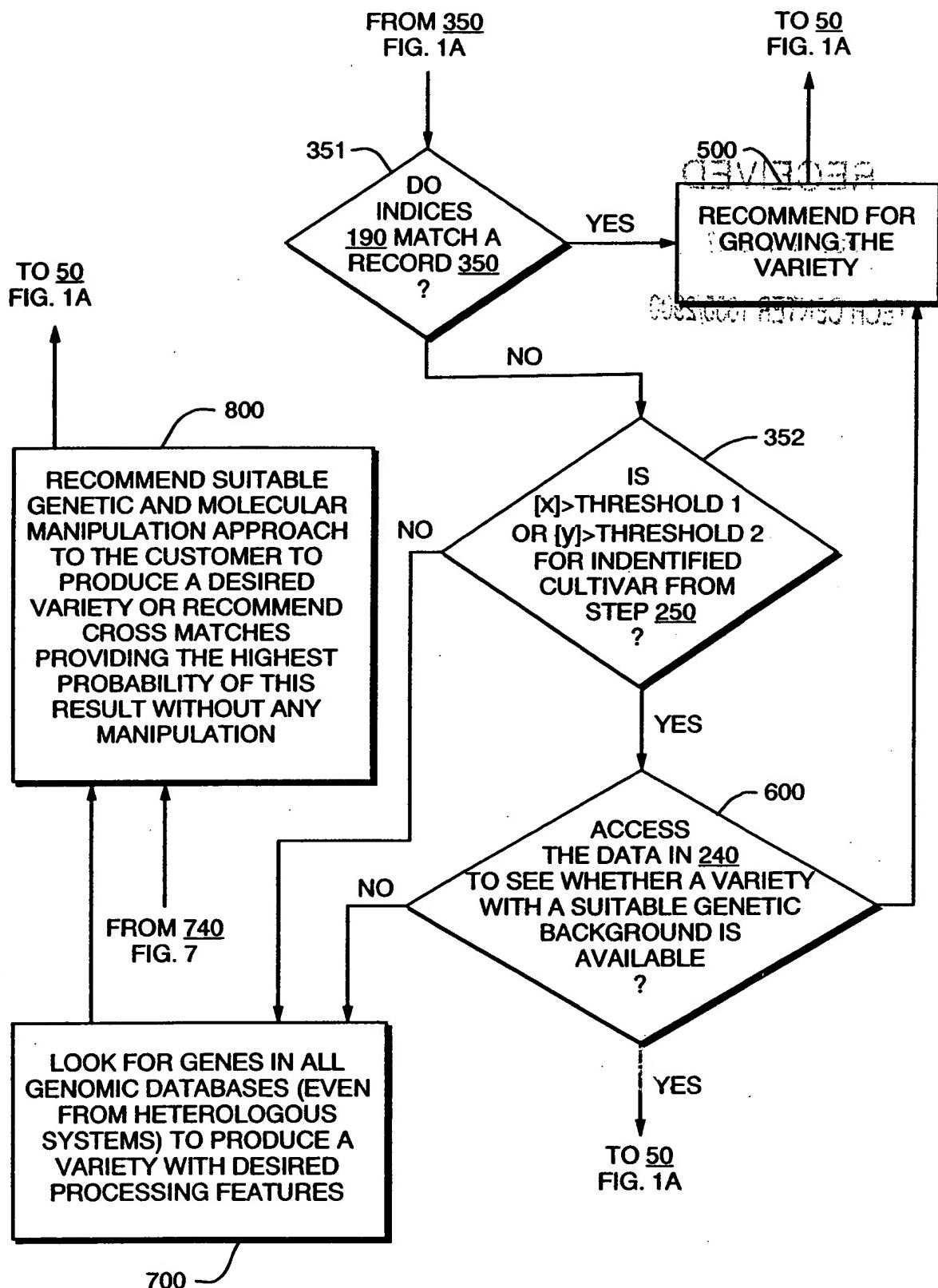
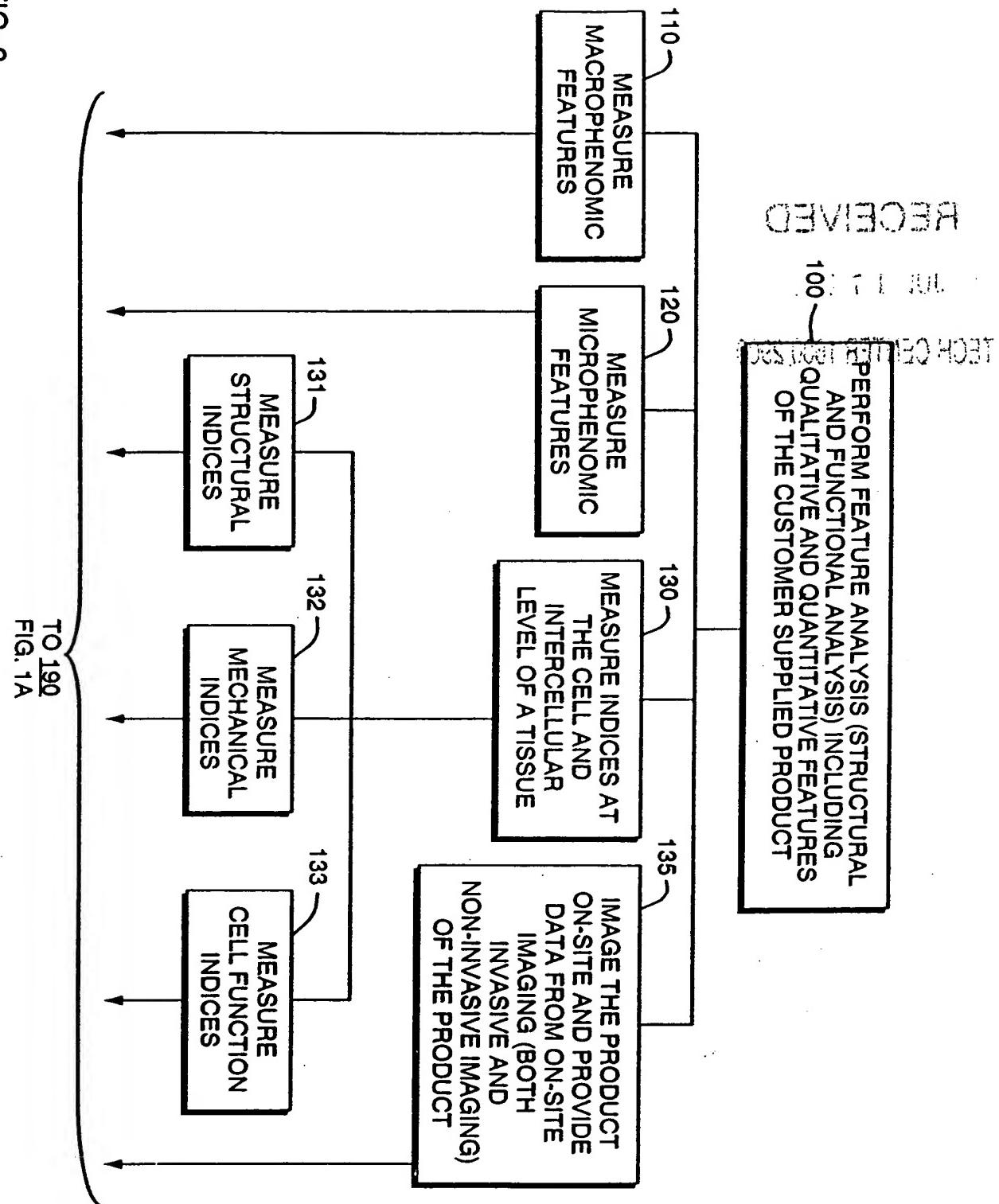


FIG. 1B

FIG. 2



250a	251a	
GENETIC INFORMATION CULTIVAR 1 <u>253a</u> <hr/> <ul style="list-style-type: none">• FRUIT SIZE GENE(S) $f_1f_2f_3f_4$• β-CAROTENE GENE(S) B_1• LYCOPENE CONTENT GENE(S) hp_1• FRUIT SUGAR GENE(S) s_1	GENETIC INFORMATION CULTIVAR 1 <u>254a</u> <hr/> <ul style="list-style-type: none">• FRUIT SIZE GENE(S) $f_1f_2f_3f_4$• β-CAROTENE GENE(S) B_1• LYCOPENE CONTENT GENE(S) hp_1• FRUIT SUGAR GENE(S) s_1	
GROWTH CONDITIONS INFORMATION SET 1 <u>240a</u> <hr/> <ul style="list-style-type: none">• DAY TEMPERATURE 15-20°C• SOIL FERTILITY 6000 (kg NITROGEN/HA)• SOIL MOISTURE 20%	GROWTH CONDITIONS INFORMATION SET 2 <u>241a</u> <hr/> <ul style="list-style-type: none">• DAY TEMPERATURE 23-25°C• SOIL FERTILITY 4000 (kg NITROGEN/HA)• SOIL MOISTURE 30%	
PRODUCT FEATURE RANGE SET 1 <u>256a</u> <hr/> <ul style="list-style-type: none">• FRUIT SIZE 50-60mm• β-CAROTENE 8-10ppm• LYCOPENE 90-100ppm• TOTAL FRUIT SUGARS 65-70%	PRODUCT FEATURE RANGE SET 2 <u>257a</u> <hr/> <ul style="list-style-type: none">• FRUIT SIZE 70-80mm• β-CAROTENE 4-6ppm• LYCOPENE 70-80ppm• TOTAL FRUIT SUGARS 65-70%	

TO FIG. 3B

FIG. 3A

252a

250b

<p>GENETIC INFORMATION CULTIVAR 1 <u>255a</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) $f_1f_2f_3f_4$ • β-CAROTENE GENE(S) B_1 • LYCOPENE CONTENT GENE(S) hp_1 • FRUIT SUGAR GENE(S) S_1 	<p>GENETIC INFORMATION CULTIVAR 2 <u>253b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 	
<p>GROWTH CONDITIONS INFORMATION SET 3 <u>242a</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% 	<p>GROWTH CONDITIONS INFORMATION SET 1 <u>240b</u></p> <ul style="list-style-type: none"> • DAY TEMPERATURE 15-20°C • SOIL FERTILITY 6000 (kg NITROGEN/HA) • SOIL MOISTURE 20% 	
<p>PRODUCT FEATURE RANGE SET 1 <u>258a</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 90-100mm • β-CAROTENE 1-2ppm • LYCOPENE 55-65ppm • TOTAL FRUIT SUGARS 65-70% 	<p>PRODUCT FEATURE RANGE SET 1 <u>256b</u></p> <ul style="list-style-type: none"> • FRUIT SIZE 55-60mm • β-CAROTENE 9-10ppm • LYCOPENE 95-100ppm • TOTAL FRUIT SUGARS 65-70% 	

FROM FIG. 3A

TO FIG. 3C

FIG. 3B

251b → <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">GENETIC INFORMATION CULTIVAR 2 <u>254b</u></th><th style="text-align: center; padding: 5px;">GENETIC INFORMATION CULTIVAR 2 <u>255b</u></th></tr> </thead> <tbody> <tr> <td style="padding: 10px;"> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 </td><td style="padding: 10px;"> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 </td></tr> </tbody> </table> 252b → <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">GROWTH CONDITIONS INFORMATION SET 2 <u>241b</u></th><th style="text-align: center; padding: 5px;">GROWTH CONDITIONS INFORMATION SET 3 <u>242b</u></th></tr> </thead> <tbody> <tr> <td style="padding: 10px;"> <ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30% </td><td style="padding: 10px;"> <ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% </td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 5px;">PRODUCT FEATURE RANGE SET 2 <u>257b</u></th><th style="text-align: center; padding: 5px;">PRODUCT FEATURE RANGE SET 1 <u>258b</u></th></tr> </thead> <tbody> <tr> <td style="padding: 10px;"> <ul style="list-style-type: none"> • FRUIT SIZE 75-80mm • β-CAROTENE 5-6ppm • LYCOPENE 75-80ppm • TOTAL FRUIT SUGARS 65-70% </td><td style="padding: 10px;"> <ul style="list-style-type: none"> • FRUIT SIZE 20-30mm • β-CAROTENE 0.1-0.3ppm • LYCOPENE 20-25ppm • TOTAL FRUIT SUGARS 65-70% </td></tr> </tbody> </table>	GENETIC INFORMATION CULTIVAR 2 <u>254b</u>	GENETIC INFORMATION CULTIVAR 2 <u>255b</u>	<ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 	<ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 	GROWTH CONDITIONS INFORMATION SET 2 <u>241b</u>	GROWTH CONDITIONS INFORMATION SET 3 <u>242b</u>	<ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30% 	<ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% 	PRODUCT FEATURE RANGE SET 2 <u>257b</u>	PRODUCT FEATURE RANGE SET 1 <u>258b</u>	<ul style="list-style-type: none"> • FRUIT SIZE 75-80mm • β-CAROTENE 5-6ppm • LYCOPENE 75-80ppm • TOTAL FRUIT SUGARS 65-70% 	<ul style="list-style-type: none"> • FRUIT SIZE 20-30mm • β-CAROTENE 0.1-0.3ppm • LYCOPENE 20-25ppm • TOTAL FRUIT SUGARS 65-70%
GENETIC INFORMATION CULTIVAR 2 <u>254b</u>	GENETIC INFORMATION CULTIVAR 2 <u>255b</u>											
<ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 	<ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1f_2 • β-CAROTENE GENE(S) B_1B_2 • LYCOPENE CONTENT GENE(S) hp_1hp_2 • FRUIT SUGAR GENE(S) S_1S_2 											
GROWTH CONDITIONS INFORMATION SET 2 <u>241b</u>	GROWTH CONDITIONS INFORMATION SET 3 <u>242b</u>											
<ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30% 	<ul style="list-style-type: none"> • DAY TEMPERATURE 27-30°C • SOIL FERTILITY 2000 (kg NITROGEN/HA) • SOIL MOISTURE 50% 											
PRODUCT FEATURE RANGE SET 2 <u>257b</u>	PRODUCT FEATURE RANGE SET 1 <u>258b</u>											
<ul style="list-style-type: none"> • FRUIT SIZE 75-80mm • β-CAROTENE 5-6ppm • LYCOPENE 75-80ppm • TOTAL FRUIT SUGARS 65-70% 	<ul style="list-style-type: none"> • FRUIT SIZE 20-30mm • β-CAROTENE 0.1-0.3ppm • LYCOPENE 20-25ppm • TOTAL FRUIT SUGARS 65-70% 											

FROM FIG. 3B

TO FIG. 3D

FIG. 3C

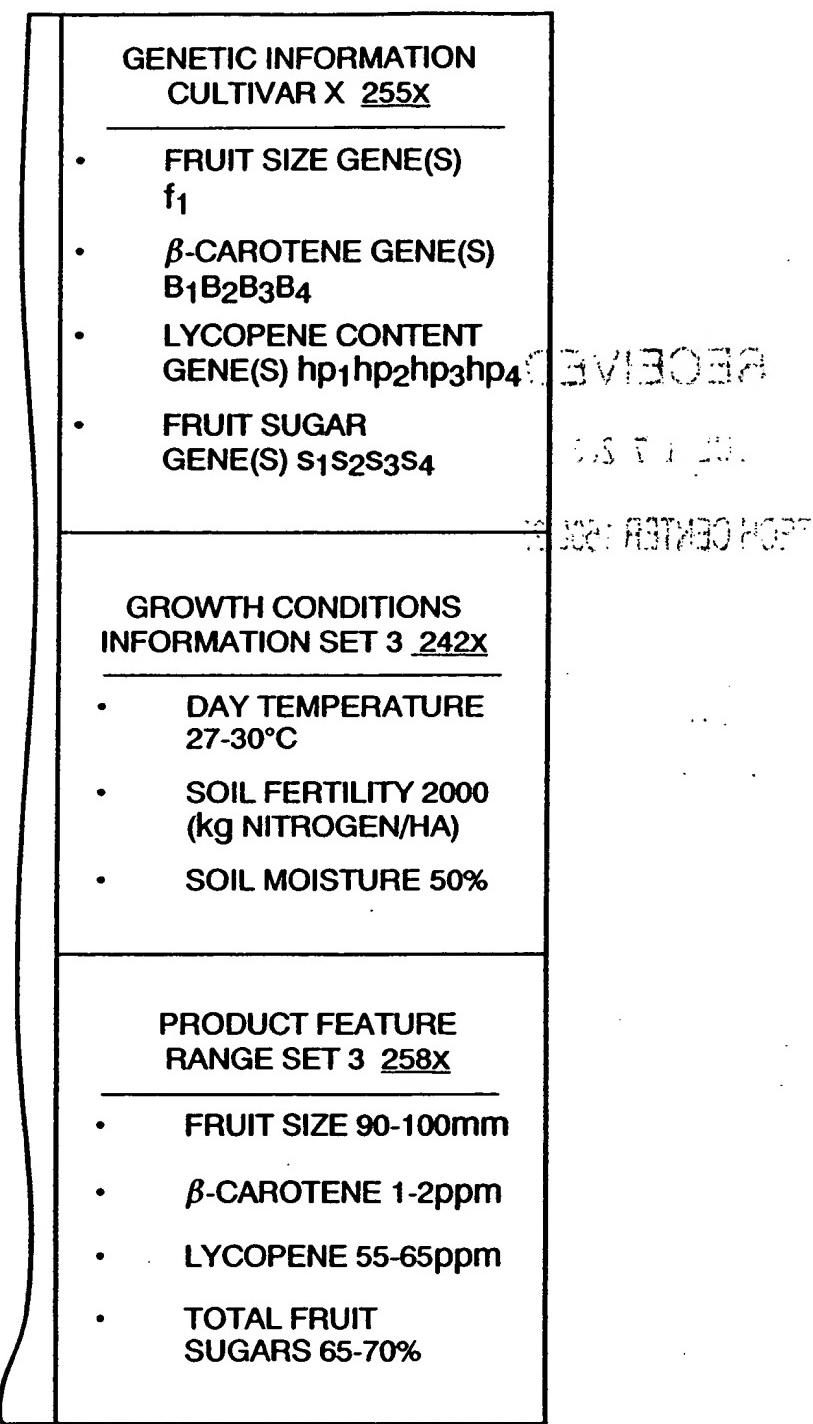
250X	251X
GENETIC INFORMATION CULTIVAR X <u>253X</u> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1 • β-CAROTENE GENE(S) $B_1B_2B_3B_4$ • LYCOPENE CONTENT GENE(S) $hp_1hp_2hp_3hp_4$ • FRUIT SUGAR GENE(S) $S_1S_2S_3S_4$ 	GENETIC INFORMATION CULTIVAR X <u>254X</u> <ul style="list-style-type: none"> • FRUIT SIZE GENE(S) f_1 • β-CAROTENE GENE(S) $B_1B_2B_3B_4$ • LYCOPENE CONTENT GENE(S) $hp_1hp_2hp_3hp_4$ • FRUIT SUGAR GENE(S) $S_1S_2S_3S_4$
GROWTH CONDITIONS INFORMATION SET 1 <u>240X</u> <ul style="list-style-type: none"> • DAY TEMPERATURE 5-20°C • SOIL FERTILITY 6000 (kg NITROGEN/HA) • SOIL MOISTURE 20% 	GROWTH CONDITIONS INFORMATION SET 2 <u>241X</u> <ul style="list-style-type: none"> • DAY TEMPERATURE 23-25°C • SOIL FERTILITY 4000 (kg NITROGEN/HA) • SOIL MOISTURE 30%
PRODUCT FEATURE RANGE SET 1 <u>256X</u> <ul style="list-style-type: none"> • FRUIT SIZE 50-60mm • β-CAROTENE 6-8ppm • LYCOPENE 75-85ppm • TOTAL FRUIT SUGARS 50-55% 	PRODUCT FEATURE RANGE SET 2 <u>257X</u> <ul style="list-style-type: none"> • FRUIT SIZE 70-80mm • β-CAROTENE 1-2ppm • LYCOPENE 55-65ppm • TOTAL FRUIT SUGARS 55-65%

FROM FIG. 3C

TO FIG. 3E

FIG. 3D

252X



FROM FIG. 3D

FIG. 3E

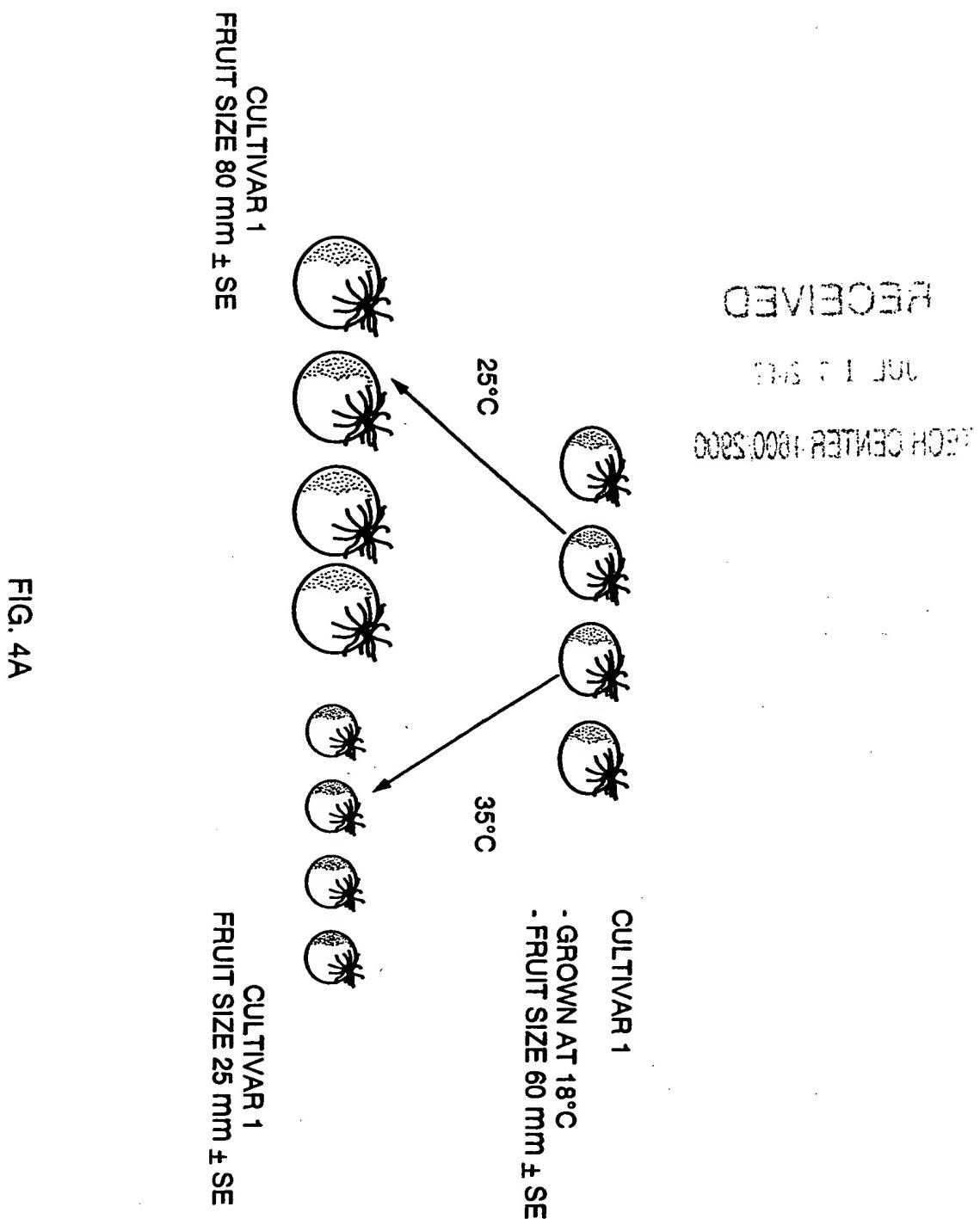
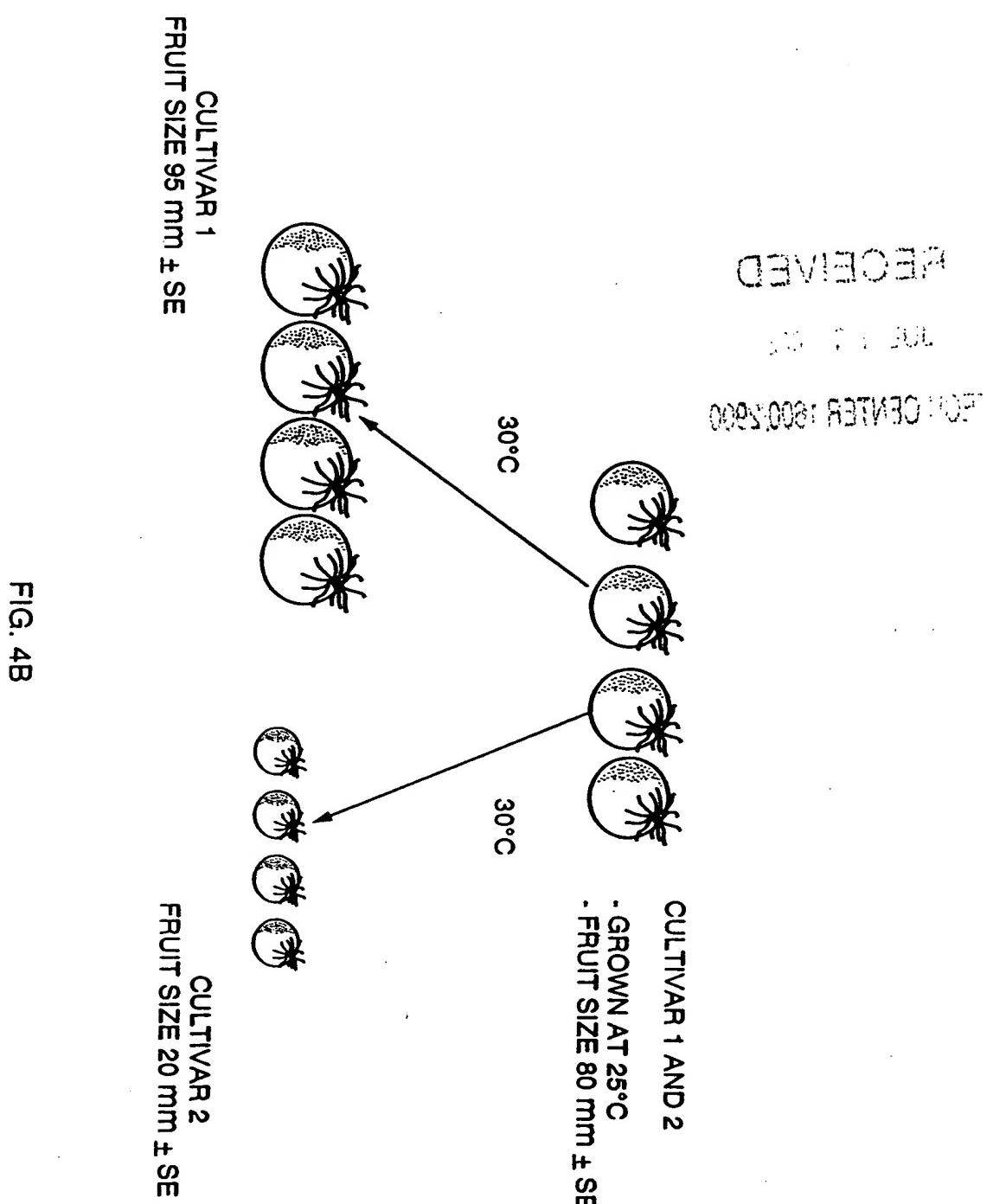


FIG. 4A

Serial No.: US20241,104

Inventor: Johnson

Title: Method and Information System For Non-Random Selection Of Uniform
Structural And Functional Features For Tissue And Plant Product Processing



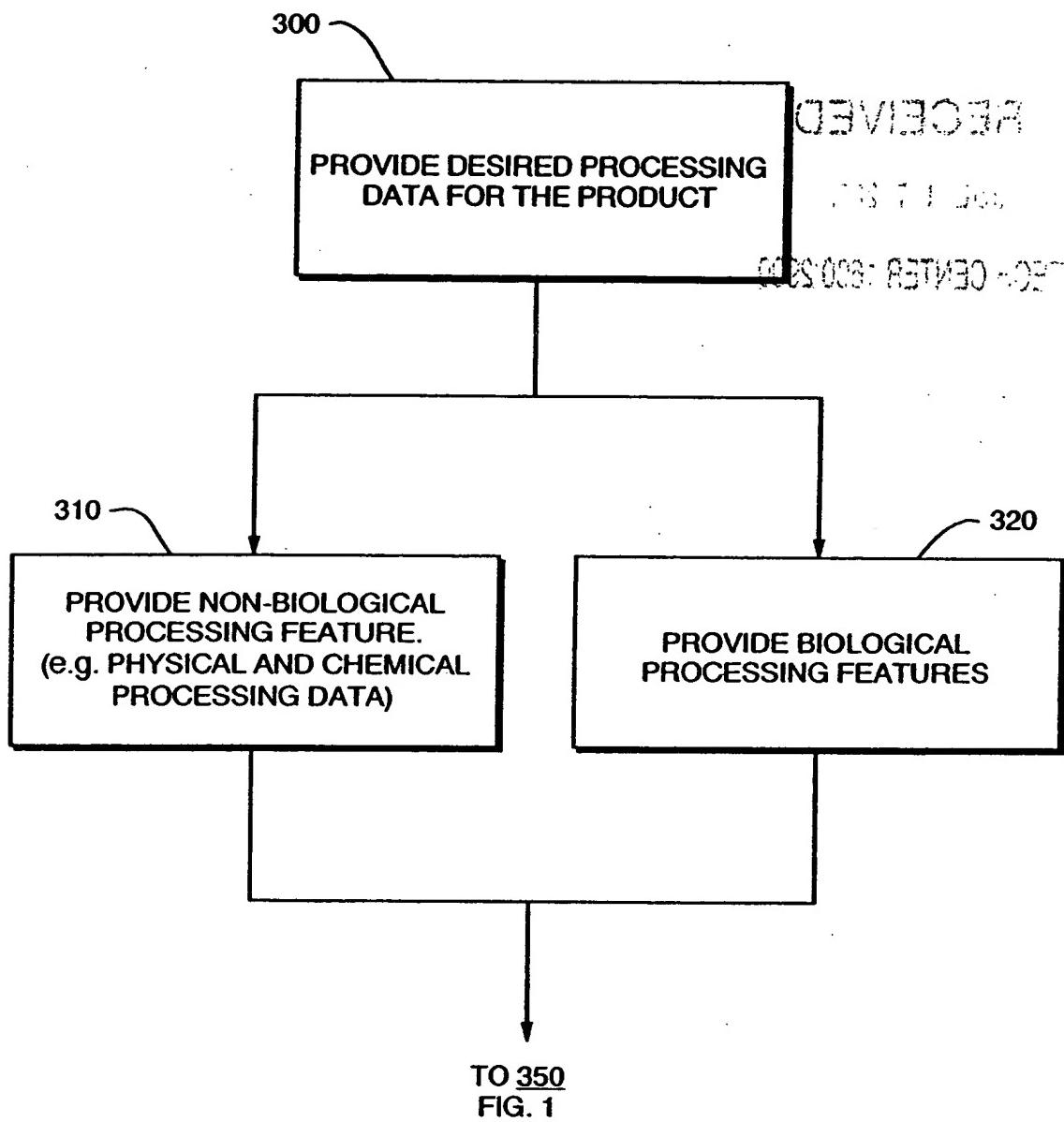


FIG. 5

<p>350a</p> <p>PRODUCT PROCESSING DATA SET 1 352a</p> <ul style="list-style-type: none">• MILLING TIME 15 MIN.• HEATING TEMP 90°C	<p>350b</p> <p>PRODUCT PROCESSING DATA SET 2 352b</p> <ul style="list-style-type: none">• MILLING TIME 10 MIN.• HEATING TEMP 80°C	<p>350x</p> <p>PRODUCT PROCESSING DATA SET n 352x</p> <ul style="list-style-type: none">• MILLING TIME 5 MIN.• HEATING TEMP 70°C
<p>PRODUCT PROCESSING FEATURE RANGE SET 1 354a</p> <ul style="list-style-type: none">• LYCOPENE 55-65 ppm• SIZE 90-100 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 1-2 ppm	<p>PRODUCT PROCESSING FEATURE RANGE SET 2 354b</p> <ul style="list-style-type: none">• LYCOPENE 70-80 ppm• SIZE 70-80 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 4-6 ppm	<p>PRODUCT PROCESSING FEATURE RANGE SET n 354x</p> <ul style="list-style-type: none">• LYCOPENE 90-100 ppm• SIZE 50-60 mm• TOTAL FRUIT SUGARS 65-70%• β-CAROTENE CONTENT 8-10 ppm

FIG. 6

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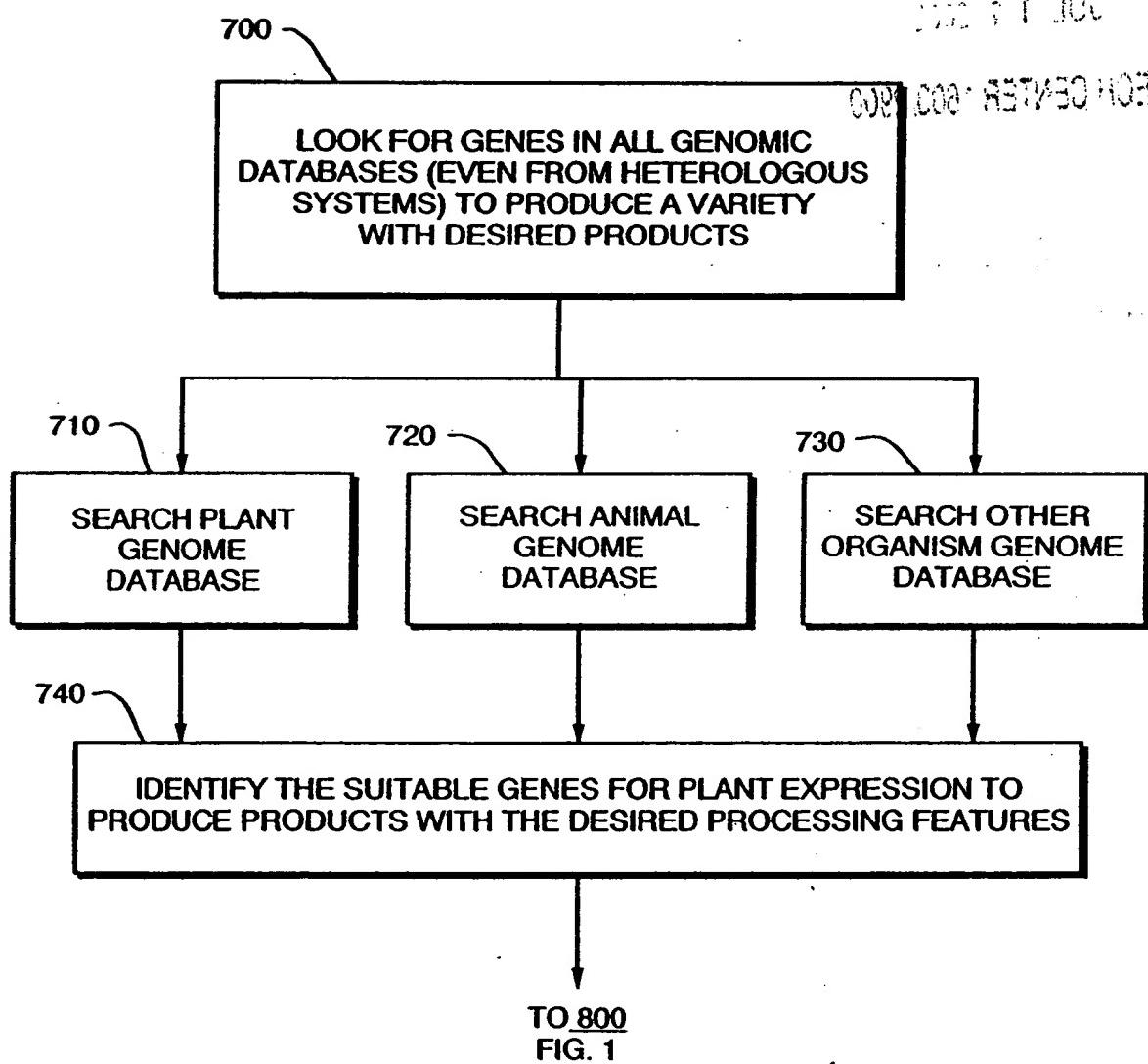


FIG. 7

Serial No.: 08/221,669
Inventor: Johnson
Title: Method and Information System For Non-Random Selection Of Uniform Structural And Functional Features For Tissue And Plant Product Processing

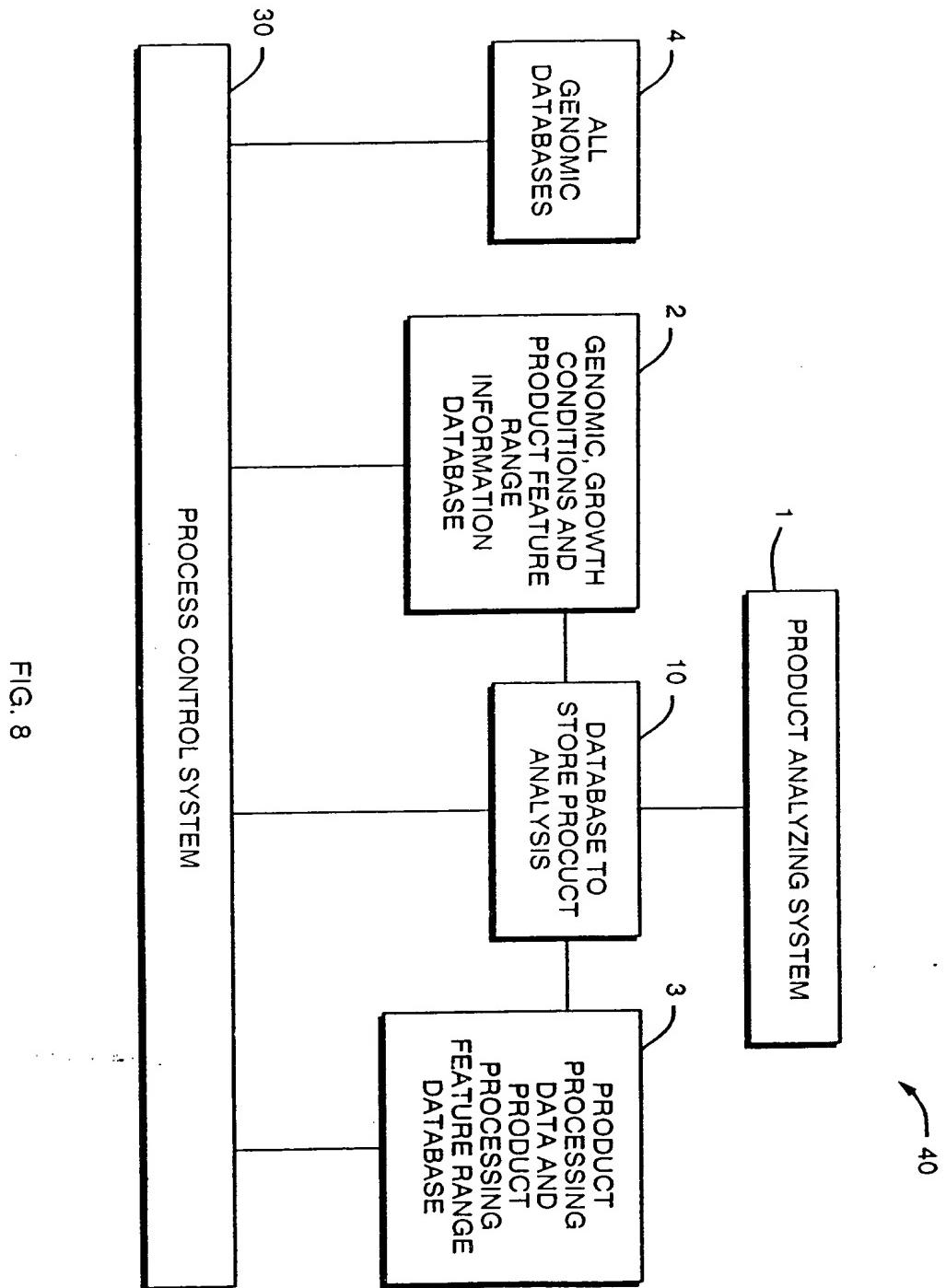


FIG. 8